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STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVE., N.W.
WASHINGTON, DC 20005

EXAMINER

TURNER, ASHLEY D

ART UNIT	PAPER NUMBER
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2154

MAIL DATE	DELIVERY MODE
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10/05/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/660,740

Applicant(s)

NICHOLAS, HENRY T.

Examiner

Ashley D. Turner

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 12 September 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>12/16/2005</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2,3,4-10,12-14,19-26,28,29,31-38,40 are rejected under 35 U.S.C. 102 (a) as being anticipated by Erlick et al hereinafter Erlick (WO 00/4429 A1).

Referring to claim 1, A method for network communication in an end user device comprising a plurality of network interfaces for communicating over a corresponding plurality of networks, the method comprising: detecting a plurality of available networks (Pg. 6 lines 30 –35) may include; selecting an optimal network from said plurality of available networks (Pg. 3 lines 20-22); initiating data communication with a remote device over said optimal network via a first one of the plurality of network interfaces(Pg. 5 lines 5-18); and when said data communication over said optimal network is terminated, continuing said data communication without interruption over another of said plurality of available networks via a second one of the plurality of network interfaces(Pg. 7 lines 19-25).

Referring to claim 3 Erlick discloses all the limitations of claim 3 which is described above. Erlick also discloses wherein said detecting said plurality of available networks is performed when a task related to network communication is initiated on the end user device (Pg.3 lines 10-23).

Referring to claim 4 Erlick discloses all the limitations of claim 4 which is described above. Erlick also discloses wherein said detecting said plurality of available networks comprises searching for available networks in an order based on expected transfer rate i.e. bandwidth (pg. 4 lines 15-17 This information can include, for example, the cost per minute for the various available communications networks, channel bandwidths within each network, channel tuning information, and other network characteristics) and (Pg.3 lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria.

Referring to claim 5 Erlick discloses all the limitations of claim 5 which is described above. Erlick also discloses wherein said detecting said plurality of available networks comprises searching for available networks based on a type of data to be communicated (pg. 4 lines 15-17 This information can include, for example, the cost per minute for the various available communications networks, channel bandwidths within each network, channel tuning information, and other network characteristics) and (Pg.3

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lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria. The limitation of searching for available networks based on a type of data to be communicated is intrinsic property of the claimed invention, as the claimed invention would be useless to select a network that doesn't correspond to the type of data being communicated).

Referring to claim 6 Erlick discloses all the limitations of claim 6 which is described above. Erlick also discloses wherein selecting said optimal network comprises selecting said optimal network based on a type of data to be communicated (Pg. 3 lines 20-23)

Referring to claim 7 Erlick discloses all the limitations of claim 7 which is described above. Erlick also discloses wherein selecting said optimal network comprises selecting said optimal network based on an expected bit error rate for each of said plurality of available networks (Pg. 5 lines 7-13) (Pg.5 lines 1-4).

Referring to claim 8 Erlick discloses all the limitations of claim 8 which is described above. Erlick also discloses wherein selecting said optimal network comprises selecting said optimal network based on an expected signal-to noise ration for each of said plurality of available networks (Pg. 3 lines 20-22) (Pg.5 lines 1-4) and (Pg. 9l lines 21-24).

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Referring to claim 10 Erlick discloses all the limitations of claim 10 which is described above. Erlick also discloses wherein selecting said optimal network comprises selecting said optimal network based on an expected cost associated with communicating over each of said plurality of available networks (Pg. 4 lines 23-29).

Referring to claim 12 Erlick discloses all the limitations of claim 10 which is described above. Erlick also discloses establishing a connection with said remote device over said another of said plurality of available networks via said second one of the plurality of network interfaces prior to said termination of said data communication over said optimal network (Pg. 6 lines 5 -15).

Referring to claim 13 Erlick discloses an end user device, comprising: a plurality of network interfaces for communicating over a corresponding plurality of networks; and a processor coupled to said plurality of network interfaces, said processor configured to detect a plurality of available networks (Pg. 6 lines 30 -35), and to initiate data communication with a remote device over said optimal network via a first one of said plurality of network interfaces; wherein said processor is further configured to continue said data communication without interruption over another of said plurality of available networks via a second one of said plurality of network interfaces(Pg. 7 lines 19-25); wherein said processor is further configured to continue said data communication without interruption over another of said plurality of available networks via a second one

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of plurality of network interfaces when said data communication over said optimal network is terminated(Pg. 7 lines 19-25).

Referring to claim 14 Erlick discloses all the limitations of claim 14 which is described above. Erlick also discloses wherein at least one of said plurality of network interfaces comprises a wireless network interface (Fig.1 pg.2 lines 32-33).

Referring to claim 19 Erlick discloses all the limitations of claim 19 which is described above. Erlick also discloses wherein said processor is configured to detect said plurality of available networks in response to initiation of a task related to network communication (Pg. 3 lines 10-23).

Referring to claim 20 Erlick discloses all the limitations of claim 20 which is described above. Erlick also discloses wherein said processor is configured to detect plurality of available networks by searching for available networks in an order based on expected transfer rate i.e. bandwidth (pg. 4 lines 15-17 This information can include, for example, the cost per minute for the various available communications networks, channel bandwidths within each network, channel tuning information, and other network characteristics) and (Pg.3 lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria.

Referring to claim 21 Erlick discloses all the limitations of claim 21 which is described above. Erlick also discloses wherein said processor is configured to detect said plurality of available networks by searching for available networks based on a type of data to be communicated (pg. 4 lines 15-17 This information can include, for example, the cost per minute for the various available communications networks, channel bandwidths within each network, channel tuning information, and other network characteristics) and (Pg.3 lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria. The limitation of searching for available networks based on a type of data to be communicated is intrinsic property of the claimed invention, as the claimed invention would be useless to select a network that doesn't correspond to the type of data being communicated).

Referring to claim 22 Erlick discloses all the limitations of claim 22 which is described above. Erlick also discloses wherein said processor is configured to select said optimal network based on a type of data to be communicated (Pg.3 lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria. The limitation of select said optimal network based on a type of data to be communicated is intrinsic property of the claimed invention, as the claimed invention would be useless to select a network that doesn't correspond to the type of data being communicated).

Referring to claim 23 Erlick discloses all the limitations of claim 23 which is described above. Erlick also discloses wherein said processor is configured to select said optimal network based on an expected bit error rate for each of said plurality of available networks (Pg. 5 lines 7-13).

Referring to claim 24 Erlick discloses all the limitations of claim 24 which is described above. Erlick also discloses wherein said processor is configured to select said optimal network based on an expected signal –to-noise ration for each of said plurality of available networks (pg.3 lines 20-22)(pg. 5 lines 1-4) and (pg. 9 lines 21-24).

Referring to claim 26 Erlick discloses all the limitations of claim 26 which is described above. Erlick also discloses wherein said processor is configured to select said optimal network based on an expected cost associated with communicating over each of said plurality of available networks (pg. 4 lines 23-29).

Referring to claim 28 Erlick discloses all the limitations of claim 28 which is described above. Erlick also discloses wherein said processor is further configured to establish a connection with said remote device over said another of said plurality of available networks via said second one of said plurality of network interfaces prior to said termination of said data communication over said optimal network (Pg. 6 lines 10-15).

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Referring to claim 29 Erlick discloses a computer program product comprising a computer useable medium having computer program logic recorded thereon for enabling a processor to perform network communication in an end user device comprising a plurality of networks, said computer program logic comprising: means for enabling the processor to detect a plurality of available networks (Pg. 6 lines 30 –35); means for enabling the processor to select an optimal network from said plurality of available networks (Pg. 3 lines 20-22); means for enabling the processor to initiate data communication with a remote device over said optimal network via a first one of plurality of network interfaces(Pg. 5 lines 5-18) ; and means for enabling the processor to continue said data communication without interruption over another of said plurality of available networks via a second one of said plurality of network interfaces when said data communication over said optimal network is terminated(Pg. 7 lines 19-25).

Referring to claim 31 the computer program product of claim 2, wherein said means for enabling the processor to detect said plurality of available networks is invoked when a task related to network communication is initiated on the end user device (Pg. 3 lines 10-23).

Referring to claim 32 Erlick discloses all the limitations of claim 32 which is described above. Erlick also discloses wherein said means for enabling the processor to detect said plurality of available networks comprises means for enabling the processor to

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search for available networks in an order based on expected transfer rate (Pg. 5 lines 8-15).

Referring to claim 33 Erlick discloses all the limitations of claim 33 which is described above. Erlick also discloses wherein said means for enabling the processor to detect said plurality of available networks comprises means for enabling the processor to search for available networks based on a type of data to be communicated (Pg.6 lines 28-35).

Referring to claim 34 Erlick discloses all the limitations of claim 34 which is described above. Erlick also discloses wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on a type of data to be communicated (Pg.3 lines 20-22 This allows the communications unit to select the available communications network which provides optimal service to a subscriber based on the predetermined criteria. The limitation of select said optimal network based on a type of data to be communicated is intrinsic property of the claimed invention, as the claimed invention would be useless to select a network that doesn't correspond to the type of data being communicated).

Referring to claim 35 Erlick discloses all the limitations of claim 35 which is described above. Erlick also discloses wherein said for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal

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network based on an expected bit error rate for each of said plurality of available networks (Pg. 5 lines 7-13) and (Pg. 5 lines 1-4).

Referring to claim 36 Erlick discloses all the limitations of claim 36 which is described above. Erlick also discloses wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an expected signal-to-noise ratio for each of said plurality of available networks (Pg.3 lines 20-22) (Pg. 5 lines 1-4).

Referring to claim 38 Erlick discloses all the limitations of claim 38 which is described above. Erlick also discloses wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an expected cost associated with communicating over each of said plurality of available networks (Pg. 4 lines 23-29).

Referring to claim 40 Erlick discloses all the limitations of claim 35 which is described above. Erlick also discloses further comprising: means for enabling the processor to establish a connection with said remote device over said another of said plurality of available networks via said second one of the plurality of network interfaces prior to said termination of said data communication over said optimal network. (Pg. 6 lines 10-15)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9,25, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erlick (WO 00/74429 A1) in view of Gallagher (US 5,848,145).

Referring to claim 9 Erlick discloses all the limitations of claim 9 which is described above. Erlick did not disclose wherein selecting said optimal network comprises selecting said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks. The general concept of selecting said optimal network comprises selecting said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks is well known in the art as taught by Gallagher. Gallagher discloses selecting said optimal network comprises selecting said optimal network based on an expected number of intervening network between the end user device and said remote device for each of said plurality of available networks (Col.7 lines 55-60 If the answer is no, block 1007 selects an available route from level 4 routing table 303 which has fewest hops and transfers control to block 1009 which processes the setup message). It

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would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include selecting said optimal network comprises selecting said optimal network based on an expected number of intervening network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks in order to allow switching nodes to determine their own path through the packet switching system.

Referring to claim 25 Erlick discloses all the limitations of claim 25 which is described above. Erlick did not discloses wherein said processor is configured to select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks. The general concept select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks is well known in the art as taught by Gallagher. Gallagher discloses select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks (Col.7 lines 55-60 If the answer is no, block 1007 selects an available route from level 4 routing table 303 which has fewest hops and transfers control to block 1009 which processes the setup message). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for

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each of said plurality of available networks in order to allow switching nodes to determine their own path through the packet switching system.

Referring to claim 37 Erlick discloses all the limitations of claim 37 which is described above. Erlick did not disclose wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks. The general concept of enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks is well known in the art as taught by Gallagher. Gallagher discloses enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks (Col.7 lines 55-60 If the answer is no, block 1007 selects an available route from level 4 routing table 303 which has fewest hops and transfers control to block 1009 which processes the setup message). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include enabling the processor to select said optimal network based on an expected number of intervening network entities between the end user device and said remote device for each of said plurality of available networks in

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order to allow switching nodes to determine their own path through the packet switching system.

Claims 15, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erlick (WO 00/74429 A1) in view of Hopper (US 2003/0053114 A1).

Referring to claim 15 Erlick discloses all the limitations of claim 14 which is described above. Erlick did not disclose wherein at least one of said plurality of network interfaces comprises a wired network. The general concept of having at least one of said plurality of network interfaces comprises a wired network is well known in the art as disclosed by Hopper. Hopper discloses at least one of said plurality of network interfaces comprises a wired network (Pg. 1 [0015] The control unit 106 may also be communicatively coupled with the world-wide -web, via a wide area network interface via wired, wireless, combination of wired and wireless local area network communication links 104). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include network interfaces comprises a wired network in order to allow a computer to read such computer readable information.

1Referring to claim 16 Erlick discloses all the limitations of claim 16 which is described above. Erlick did not disclose wherein at least one of said plurality of network interface comprises a local area network interface. The general concept of at least one of said plurality of network interface comprises a local area network interface is well known in

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the art as disclosed by Hooper. Hooper discloses at least one of said plurality of network interface comprises a local area network interface (Pg. 1 [0015] The control unit 106 may also be communicatively coupled with the world-wide –web, via a wide area network interface via wired, wireless, combination of wired and wireless local area network communication links 104). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include at least one of said plurality of network interface comprises a local area network interface in order to have a much higher transfer rates.

Referring to claim 17 Erlick discloses all the limitations of claim 17 which is described above. Erlick did not disclose wherein at least one of said plurality of network interface comprises a wide area network interface. The general concept of having at least one of said plurality of network interface comprises a wide area network interface is well known in the art as disclosed by Hopper. Hopper discloses at least one of said plurality of network interface comprises a wide area network interface (Pg. 1 [0015] The control unit 106 may also be communicatively coupled with the world-wide –web, via a wide area network interface via wired, wireless, combination of wired and wireless local area network communication links 104). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick to include at least one of said plurality of network interface comprises a wide area network interface in order to cover a broad area of service for example any network communications links cross metropolitan, regional or national boundaries.

Claims 2, 18, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erlick (WO 00/74429 A1) in view of Godwin (US 4,658,204).

Referring to claim 2 Erlick discloses all the limitations of claim 2 which is described above. Erlick did not disclose wherein said detecting said plurality of available networks is performed as part of a power-up sequence of the end user device. The general concept of wherein said detecting said plurality of available networks is performed as part of a power-up sequence of the end user device is well known in the art as disclosed by Peterson. Peterson discloses wherein said detecting said plurality of available networks is performed as part of a power-up sequence of the end user device (Pg.6 [0042]). It would have been obvious to one of ordinary skill in the art to modify Erlick in order for the information server and the communications engine to communicate with the discovery service.

Referring to claim 18, Erlick discloses all the limitations of claim 18 which is described above. Erlick did not disclose wherein said processor is configured to detect said plurality of available networks as part of a power-up sequence. The general concept of wherein said processor is configured to detect said plurality of available networks as part of a power-up sequence is well known in the art as disclosed by Peterson. Peterson discloses wherein said processor is configured to detect said plurality of

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available networks as part of a power –up sequence (Pg.6 [0042]). It would have been obvious to one of ordinary skill in the art to modify Erlick in order for the information server and the communications engine to communicate with the discovery service.

Referring to claim 30 Erlick discloses all the limitations of claim 30 which is described above. Erlick did not disclose wherein said means for enabling the processor to detect said plurality of available networks is invoked as part of a power-up sequence of the end user device. The general concept of wherein said means for enabling the processor to detect said plurality of available networks is invoked as part of a power-up sequence of the end user device (Pg.6 [0042]). It would have been obvious to one of ordinary skill in the art to modify Erlick in order for the information server and the communications engine to communicate with the discovery service.

Claims 11, 27, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erlick (WO 00/74429 A1) in view of (US 2003/0195934 A1).

Referring to claim 11 Erlick discloses all the limitations of claim 11 which is described above. Erlick did not disclose wherein selecting said optimal network comprises selecting said optimal network based on an anticipated power consumption associated with communicating over each of said plurality of available networks. The general concept of having selecting said optimal network comprises selecting said optimal

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network based on an anticipated power consumption associated with communicating over each of said plurality of available networks is well known in the art as taught by Godwin. Godwin discloses selecting said optimal network comprises selecting said optimal network based on an anticipated power consumption associated with communicating over each of said plurality of available networks (Col.4 lines 20-34). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick in order to allow normal resumption of the processing when power is restored.

Referring to claim 27 Erlick discloses all the limitations of claim 27 which is described above. Erlick did not disclose wherein said processor is configured to select said optimal network based on anticipated power consumption associated with communicating over each of said plurality of available networks. The general concept of having wherein said processor is configured to select said optimal network based on anticipated power consumption associated with communicating over each of said plurality of available networks is well known in the art as taught by Godwin. Godwin discloses wherein said processor is configured to select said optimal network based on anticipated power consumption associated with communicating over each of said plurality of available networks (Col.4 lines 20-34). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick in order to allow normal resumption of the processing when power is restored.

Referring to claim 39 Erlick discloses all the limitations of claim 39 which is described above. Erlick did not disclose wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an anticipated power consumption associated with communicating over each of said plurality of available networks. The general concept of having wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an anticipated power consumption associated with communicating over each of said plurality of available networks is well known in the art as taught by Godwin. Godwin discloses wherein said means for enabling the processor to select said optimal network comprises means for enabling the processor to select said optimal network based on an anticipated power consumption associated with communicating over each of said plurality of available networks (Col.4 lines 20-34). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Erlick in order to allow normal resumption of the processing when power is restored.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashley d. Turner whose telephone number is 571-270-

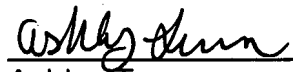
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1603. The examiner can normally be reached on Monday thru Friday 7:30a.m. - 5:00p.m..

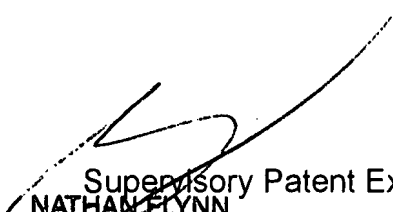
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached at 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-270-2603.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner:


Ashley Turner

Date: 10/1/07


Supervisory Patent Examiner
NATHAN FLYNN
SUPERVISORY PATENT EXAMINER
Nathan Flynn

Date: _____